

Coulomb's Law for Two Charged Spheres

In 1767 British natural philosopher Joseph Priestley became the first scientist to propose that electrical force followed an inverse-square law, similar to Newton's law of universal gravitation. However, he did not elaborate on this.¹ The general law was articulated by French physicist Charles Augustin de Coulomb. In 1784 Coulomb used two charged spheres arranged in a torsion balance to verify that the interaction force varied as the inverse square of the distance between their centers.

Your goal in this assignment is to use very simple apparatus along with video analysis to explore the inverse square law proposed by Coulomb. The equipment consists of two charged spherical conductors – one that hangs from a long pair of tweezers and another one attached to the end of an insulating rod. Before starting this activity you should watch the movie entitled Coulomb's Law.



Figure 1: Simple Coulomb apparatus with two charged conducting spheres.

A. Preliminary Questions

Note: You will receive full credit for each prediction made in this preliminary section whether or not it matches conclusions you reach in the next section. As part of the learning process it is important to compare your predictions with your results. **Do not change your predictions!**

- (a) Suppose the two spheres shown in Figure 2 are charged in the same manner so that they are both either positively charged or both negatively charged. Will the two charged spheres attract or repel each other? Explain the reason(s) for your answer.

- (b) Use the diagram below to draw and label a vector showing the electrical force that the sphere with charge q_1 exerts on the sphere with charge q_2 . Also draw and label a vector showing the electrical force that the sphere with charge q_2 exerts on the sphere with charge q_1 . Do the vectors have the same length? Point in the same direction? Explain. What does Newton's Third Law suggest?



Figure 2: Two conductors with centers separated by a distance r .

¹ Schiffield, Robert D., *The Enlightened Joseph Priestley: A Study of His Life and Work from 1773 to 1804*, University Park: Pennsylvania State University Press, 2004, pp. 144–156.

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